

OLYMPUS

WELCOME
TO THE
STUDIO

Professionals know what they want. With the LS-100, they can make sure they get it.



The LS-100 multi-track linear PCM recorder is a high-quality recording tool for the professional user. It offers multi-track recording with overdubbing and 140-dB acoustic pressure capability. Dual XLR/phono jack with phantom power for external microphones (in addition to the built-in 90° high-quality directional mics), Broadcasting Wave Format (BWF) and the build quality to make it easy to manage on the go. In short: the LS-100 is a studio that musicians and broadcasters can carry around with them wherever they go.

EVERY WORD, EVERY NOTE – CRYSTAL-CLEAR
RECORDING MAKES IT ALL COUNT

RIGHT MIC,
RIGHT PLACE.

Of course, you can hook up the LS-100 with any microphone you like, but you probably won't need to: the built-in high-fidelity mics have been carefully arranged at a 90-degree angle, precisely housed in sound-optimised chambers, to let you capture exactly what you want – from rich, deep tones to glass-shattering high notes.

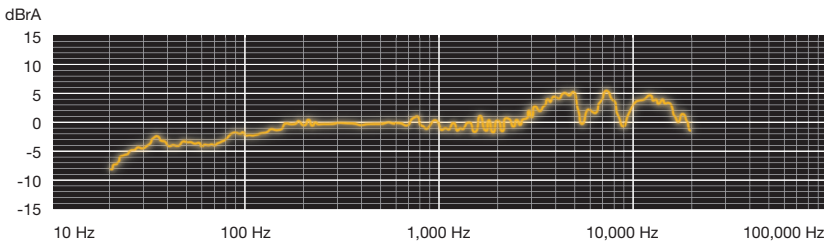
THE POWER
OF SOUND

There's no room for compromise when it comes to "perfect sound".

IT'S ALL YOU'LL NEED.
AND MORE.

In the end, it's all about great sound quality. The LS-100 records in 24-bit/96-kHz linear PCM and has a resistance to sound pressure all the way up to 140 dB SPL – which means you get crystal-clear results without distortion, no matter how loud your band plays. It works with a wide range of PCM (WAV) formats, including BWF and MP3, and a simple click converts any track to MP3, so you can attach it to an email or burn it quickly onto CD.

LS-100 FREQUENCY RESPONSE
CHARACTERISTICS



LS-100 Linear PCM Recorder



RECORDING IS AN ART.
THE ART OF RECREATING
THE MAGICAL
WORLD OF SOUND.
IF YOU ARE THE ARTIST,
THIS IS YOUR TOOL.



MULTI-TRACK
RECORDING
MADE EASY.



STEP 1

Create a project and record different tracks.

STEP 2

Check the recorded tracks and adjust the volume, use mute or panning.

STEP 3

Once you're happy with the composition, mix down (bounce) and create a CD.

XLR & PHANTOM
POWER

Plug in any mic or instrument – LS-100 is compatible with whatever your masterpiece needs.



IF YOU WANT MORE,
YOU'VE GOT IT.

With the pro-standard XLR connection, you can hook up your LS-100 with any microphone or mixer – so you can record every session with the perfect sound. Just plug dynamic or condenser mics, or even guitars and keyboards, straight into the recorder. The Phantom Power Supply, which can be set to 48 V or 24 V for each channel, delivers energy to the extensions that need it, so you get all the sound quality you want, wherever you want it. With the dual dials, you can adjust left and right channels independently for any mic input.

EVERY PLATFORM,
EVERY CONNECTION –
THE LS-100 GETS
THE JOB DONE PERFECTLY.
THAT'S PRO

MULTI-TRACK
RECORDING

The studio that fits in your bag – for an entire big band or one instrument at a time.



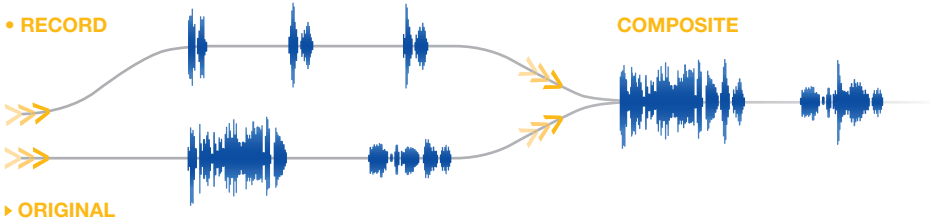
GETTING IT ALL, ONE DUB
AT A TIME.

Overdubbing might be the technology that has changed recording more than any other – especially for musicians. So we have made sure it works perfectly on the LS-100. Not just really well – perfectly. We've added Playback Synchro Recording to make it smooth – it will never feel like everyday work, even when it is.

BRILLIANT
RECORDING.
TIMES EIGHT.

You can edit up to eight tracks independently in one project, or simply use Overdubbing without Multi-track, so you can play along and record a sound on top of an existing one, while listening to what's already there. Mixing the volume afterwards means you can create entire arrangements – and then hook up a CD drive to the LS-100 via USB and burn your tracks on the spot.

OVERDUB RECORDING: CAPABILITIES WITH
SIMULTANEOUS MONITORING



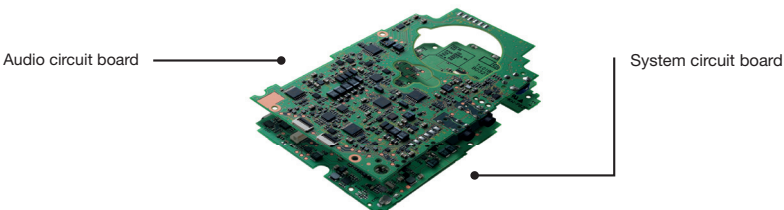
LS-100 Linear PCM Recorder

HIGH PERFORMANCE EVERYWHERE

Combines strengths inside and out.

GET ON THE MIC!

The microphones are key to the overall quality, and with the LS-100 you never need to worry if they'll be up to the task: the built-in mics are nothing short of fantastic. The amplifier components feature independent low-noise, low-distortion signals for the left and right channels and an excellent signal-to-noise ratio. This way, the durable, perfectly positioned, high-quality microphones eliminate unwanted noise and cross-channel interference to ensure you get just what you want: the clear, brilliant sound you asked for. And nothing else.



WAKE UP WITH THAT IRRESISTIBLE RIFF IN YOUR HEAD – AND PRESS RECORD

ONE FOR THE ROAD.

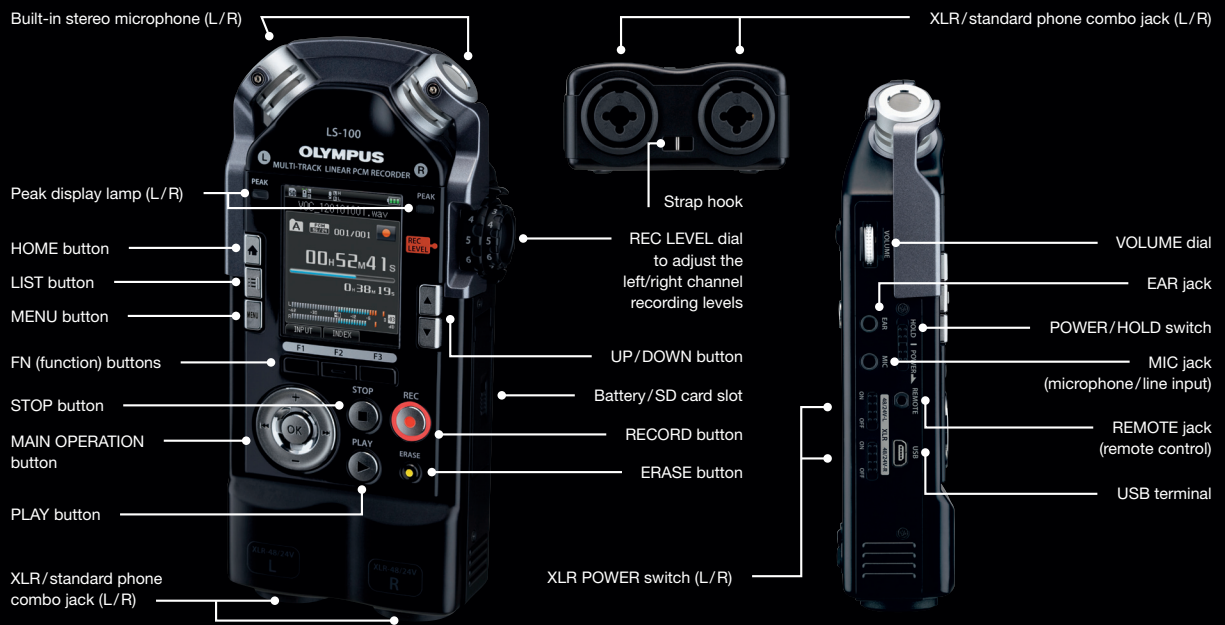
We designed the LS-100 to be tough, inside and out. In particular, the most exposed part, the high-quality microphones, are well-protected in a durable, robust metal body. That's the big picture. But we know the little things are also important when you're jamming on the go. So, for example, we built in a Lissajous function as a guide for mic position adjustments based on phase differences, as well as a tuner, a metronome and a key shift to change the octave. So you can feel right at home, even when you're on the road.

ACCESSORIES

Basically, everything you will ever need is already built into your LS-100 or comes in the box: AC adaptors for travelling abroad, a USB cable plus converter, the lithium-ion battery, a strap and a handy case. You also have the option of adding a remote control – so you can start recording from a distance.



Linear PCM Recorder LS-100



BASIC SPECIFICATIONS

MEMORY	4 GB intern. & SDXC card slot (SD/SDHC-compatible)		
LCD	2" colour display with backlight LED		
MULTI-TRACK REC.	Rec. channels	2	
	Tracks per project	8 tracks	
	Editing modes	Volume, mute, L/R panning, bounce	
ENHANCED REC. FUNCTIONS	Overdubbing, Playback Synchro Recording		
BUILT-IN MICROPHONE	90° high-performance directional stereo		
INPUT/OUTPUT	XLR/phone combo jack, Phantom Power Supply (L/R: 48 V/24 V), line in/mic jack, ear jack		
MIC. SENSITIVITY LEVEL	Hi/Mid/Lo (Hi/Lo for XLR)		
REC. LOW-CUT FILTER	Yes (300 Hz/100 Hz)		

RECORDING

APPROX. VALUES		FREQUENCY RESPONSE	4 GB (BUILT-IN)	64 GB (SDXC CARD, OPTIONAL)
PCM	96.0 kHz/24 bit	20 Hz–44 kHz	1 h. 35 min.	30 h. 00 min.
	96.0 kHz/16 bit	20 Hz–44 kHz	2 h. 15 min.	45 h. 00 min.
	88.2 kHz/24 bit	20 Hz–40 kHz	1 h. 30 min.	32 h. 30 min.
	88.2 kHz/16 bit	20 Hz–40 kHz	2 h. 30 min.	49 h. 00 min.
	48.0 kHz/24 bit	20 Hz–23 kHz	3 h. 00 min.	60 h. 00 min.
	48.0 kHz/16 bit	20 Hz–23 kHz	4 h. 45 min.	90 h. 00 min.
	44.1 kHz/24 bit	20 Hz–21 kHz	3 h. 15 min.	65 h. 00 min.
	44.1 kHz/16 bit	20 Hz–21 kHz	5 h. 00 min.	98 h. 00 min.
	44.1 kHz/mono	20 Hz–21 kHz	10 h. 00 min.	196 h. 00 min.
	320 kbps	50 Hz–20 kHz	22 h. 30 min.	432 h. 00 min.
MP3 STEREO	256 kbps	50 Hz–20 kHz	28 h. 30 min.	540 h. 00 min.
	128 kbps	50 Hz–17 kHz	57 h. 00 min.	1081 h. 00 min.
MP3 MONO	64 kbps	50 Hz–8 kHz	114 h. 00 min.	2163 h. 00 min.

BUILT-IN STEREO MIC.	20 Hz to 20 kHz (in rec. mode)
INDEX MARKS/BWF	99 (recognised as BWF time mark)
SOUND CONTROL	Manual L/R (dial switch), AGC (auto gain control), limiter (2x), compressor (2x)
RECORDING CONTROL	Pre-recording (2 sec.), recording monitor (on/off/var), Voice Sync Recording, remote control (optional)

PLAYBACK

PLAYBACK SPEED	0.5–4x	
SKIP SPACE	Forward skip	Yes (6 steps max. 10 min.)
	Reverse skip	Yes (8 steps max. 5 min.)
PLAYBACK FUNCTIONS	A–B Repeat, FF/REW, Intro Play	

MUSIC FUNCTIONS

METRONOME	Settings: Display, countdown, tempo, sound, pattern, volume	
	Tempo	40–208 PM
TUNER	Types: Calibration, chromatic, guitar and bass	
	Calibration	435 Hz–445 Hz (1 Hz steps)
OTHER	Lissajous, key shift, CD writing	

OTHER

OPERATION	5 folders/999 files per folder, Voice Guidance, MP3 converting	
USB	Hi-speed (storage, audio, HID class)	
SPEAKER	28 mm/430 mW	
POWER SUPPLY	Lithium-ion battery (LI-50B), AC adapter (A-514)	
APPROX. BATTERY LIFE	REC. SELECTION	BUILT-IN MIC.
	PCM	96.0 kHz/24 bit: 9 h. 30 min. 44.1 kHz/16 bit: 12 h. 30 min.
MP3	128 kbps	11 h. 45 min.
TRIPOD HOLE	Yes	
DIMENSIONS	159x70x34 mm (without protrusions)	
WEIGHT	280 g (lithium-ion battery included)	
PC ENVIRONMENT	Windows XP/Vista/7, Mac OS X 10.4.11–10.7	
BOX CONTENT	Lithium-ion battery (LI-50B), USB cable, USB to mini USB converter, case (CS-141), strap, AC adapter (A-515), manual	

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OLYMPUS

PROFESSIONAL HD AUDIO – MAKE EVERY NOTE COUNT

LS-100 Linear PCM Recorder

HIGH-PERFORMANCE RECORDING
Professional studio quality.

MULTI-TRACK
Get lost in music – wherever you are.

HIGH-END MICS
Built-in 90° true sound mics.

XLR & PHANTOM POWER
As every professional knows, sometimes connections are key.

ROCK 'N' ROLL HIGH TECH
Tough and durable, its hyper-sensitive microphones are protected wherever you go.



24 bit
96 kHz
Brilliant quality you can rely on.